

Akshaya Athwale

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RESEARCH INTEREST

Geometrical deep learning, Vision Transformer, Wide Angle Images, Computer Vision

PUBLICATIONS

- **A. Athwale, I. Shili, Émile Bergeron, O. Ahmad, J.-F. Lalonde:**
 - “DarSwin-Unet: Distortion Aware Encoder-Decoder Architecture”. **IEEE Winter Conference on Applications of Computer Vision (WACV) 2025.**
- **A. Athwale, A. Afrasiyabi, J. Lague, I. Shili, O. Ahmad, J.-F. Lalonde:**
 - “DarSwin: Distortion Aware Radial Swin Transformer”. In **IEEE International Conference on Computer Vision, ICCV 2023.**
- **S. Sengupta, A. Athwale, T. Gulati, V. Lakshminarayanan:**
 - “FunSyn-Net: Enhanced Residual Variational Auto-encoder and Image-to-Image Translation Network for Fundus Image Synthesis”. in **SPIE Medical Imaging Conference 2020.**
- **Y. Hold-Geoffroy, A. Athwale, J.-F. Lalonde:**
 - “Deep Sky Modeling for Single Image Outdoor Lighting Estimation”. In **IEEE Conference on Computer Vision and Pattern Recognition, CVPR 2019.**

EDUCATION

- **Université Laval** Quebec, Canada
Doctorate Candidate 2021 - Present
- **Aalto University** Espoo, Finland
Research Assistant/Project Employee 2020 - 2021
- **Indian Institute of Technology (IIT-ISM) Dhanbad** Dhanbad, India
Integrated Master of Technology in Mathematics and Computing GPA: 8.85/10.0 2015 - 2020

RESEARCH EXPERIENCE

- **Research intern, Thales digital solution** Montréal, Canada
Supervised By : Ola Ahmad, June'23 - October'23
- **Graduate Research Assistant, Université Laval** Quebec City, Canada
Supervised By : Prof. Jean-Francois Lalonde and Ola Ahmad, August'21 - Present
- **Research Assistant/Project Employee, Aalto University** Espoo, Finland
Supervised By : Prof. Alexander Ilin, May'20 - August'21
- **Research Internship, University of Waterloo** Waterloo, Canada
Supervised By : Prof. Vasudevan Lakshminarayanan, May'19 - July'19
- **Mitacs Globalink Research Internship, University Laval** Quebec City, Canada
Supervised By : Prof. Jean-Francois Lalonde, May'18 - December'18
- **Machine Learning Engineer, Arya.ai, Lithasa Technologies** Mumbai, India
Supervised By : Deekshith Marla, May'17 - July'17

REFERENCES

- **Prof. J. F. Lalonde:** Professor, Department of Electrical and Computer Engineering, University Laval, jflalonde@gel.ulaval.ca
- **Ola Ahmad:** Chief AI Scientist at Thales Canada, ola.ahmad@thalesdigital.io
- **Prof. Alexander Ilin:** Professor, Computer Engineering, Aalto University, +358415014497, alexander.ilin@aalto.fi
- **Prof. Vasudevan Lakshminarayanan:** Professor, Electrical and Computer Engineering, University of Waterloo, vengulak@uwaterloo.ca
- **Deekshith Marla:** Founder & CTO (Featured in Forbes 30 Under 30), Lithasa Technology, Arya.ai, deekshith@arya.ai